

M 6.3, 38 km ENE of Kainantu, Papua New Guinea

Origin Time: 2020-10-08 07:35:32 UTC (Thu 17:35:32 local)

Location: 6.1140° S 146.1686° E Depth: 103.5 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 1 day, 0 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

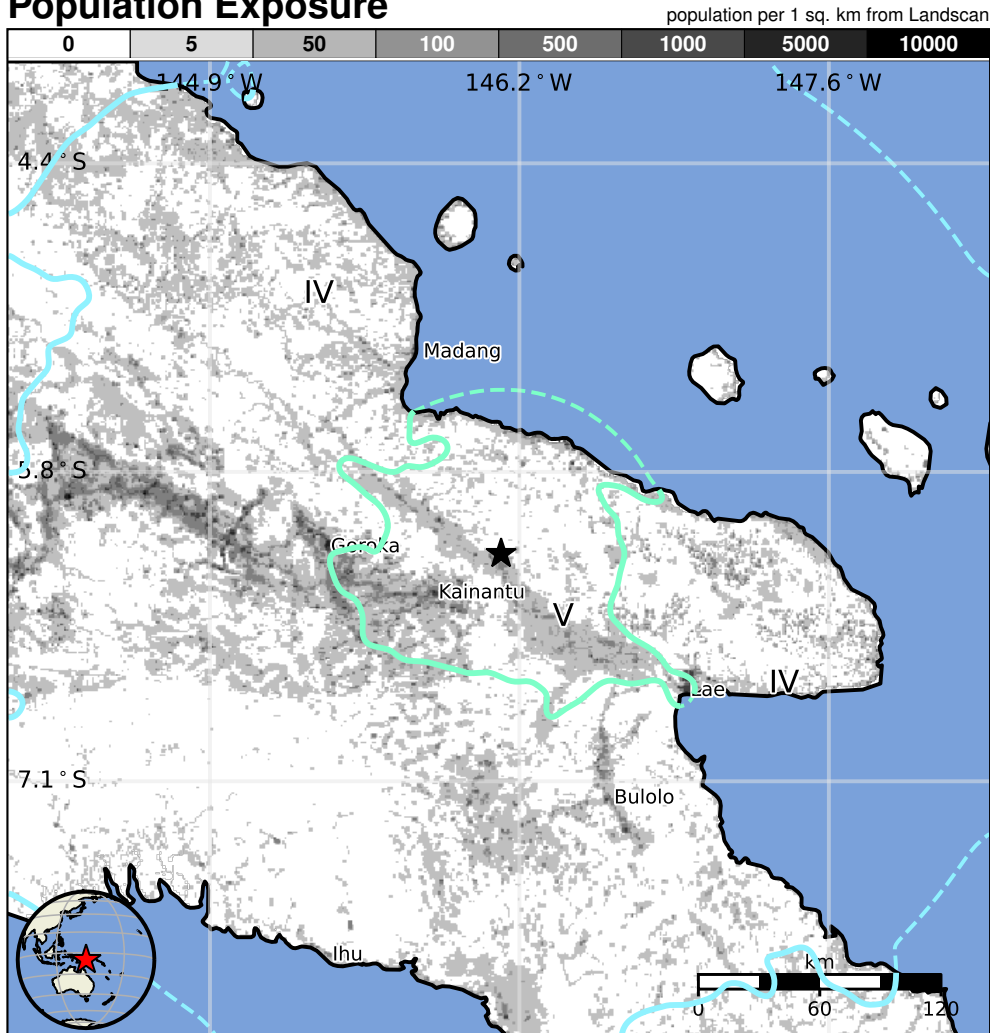


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 51k* | 2,391k | 710k | 11k | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|--------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2005-06-04 | 77 | 6.1 | VII(27k) | 1 |
| 1993-08-20 | 373 | 6.1 | VIII(13k) | 0 |
| 1993-10-16 | 29 | 6.3 | VII(75k) | 3 |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|-------------|------------|
| V | Kainantu | 9k |
| V | Lae | 76k |
| IV | Goroka | 19k |
| IV | Madang | 27k |
| IV | Bulolo | 16k |
| IV | Kundiawa | 9k |
| IV | Minj | <1k |
| IV | Wau | 15k |
| IV | Mount Hagen | 34k |
| IV | Kerema | 6k |
| IV | Ialibu | 7k |

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000c6mu#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000c6mu